Plant Mitchell Monthly Dewatering Results¹

Prepared by: TŁ TETRA TECH

August 2023

D	Units	Efflu	ent Concent	ration	Permit Limits			
Parameter		Daily Min ²	Daily Avg ²	Daily Max ²	Daily Min	Daily Avg	Daily Max	
Flow	MGD	0.00	0.16	0.24	***	***	***	
pН	SU	6.8	***	7.9	6.0	***	9.0	
Total Suspended Solids	mg/L	ND^3	ND	ND	***	30.0	100.0	
Oil and Grease	mg/L	ND	ND	ND	***	15.0	20.0	

Parameter	Units	Week 1	Week 2	Week 3	Week 4	Week 5	Daily	
		8/3/2023	8/10/2023	8/17/2023	No Discharge	No Discharge	Average	
Turbidity ⁴	NTU	0.6	1.4	0.7			0.9	
Total Residual Chlorine ⁴	mg/L	ND	ND	ND			ND	
Total Dissolved Solids	mg/L	126	131	260			172	
Ammonia	mg/L	ND	ND	ND			ND	
Total Kjeldahl Nitrogen	mg/L	0.64	ND	ND			0.21	
Nitrate-Nitrite	mg/L	ND	ND	ND			ND	
Organic Nitrogen	mg/L	0.64	ND	ND			0.21	
Phosphorus	mg/L	ND	ND	ND			ND	
Ortho-Phosphorus	mg/L	ND	ND	ND			ND	
Biological Oxygen Demand	mg/L	ND	ND	2.1			0.7	
Hardness	mg/L	68	66	69			68	

		Effluent Concentration ⁵					Calculated Receiving Water Concentration ⁵					Water Quality Criteria ⁶		
Parameter Units	Units	s Week 1	Week 2	Week 3	Week 4	Week 5	Week 1	Week 2	Week 3	Week 4	Week 5			
	8/3/2023	8/10/2023	8/17/2023	No Discharge	No Discharge	8/3/2023	8/10/2023	8/17/2023	No Discharge	No Discharge	Average	Acute ⁷	Chronic ⁷	
Antimony	μg/L	ND	ND	ND			***	***	***			***	***	640
Arsenic	μg/L	ND	ND	5.3			***	***	0.0025			0.0008	340	150
Cadmium	μg/L	ND	ND	ND			***	***	***			***	0.94	0.43
Chromium ⁸	μg/L	ND	ND	ND			***	***	***			***	16	11
Copper	μg/L	ND	ND	ND			***	***	***			***	7	5
Lead	μg/L	ND	ND	ND			***	***	***			***	30	1.2
Nickel	μg/L	ND	ND	ND			***	***	***			***	260	29
Selenium ⁹	μg/L	3.8	3.6	3.3			0.0018	0.0017	0.0016			0.0017	***	5
Thallium	μg/L	1.0	ND	ND			0.0005	***	***			0.0002	***	0.47
Zinc	μg/L	ND	ND	ND			***	***	***			***	65	65
Mercury	ng/L	ND	0.6	0.9			***	0.0003	0.0004			0.0002	1400	12

- Tetra Tech verifies the correct laboratory analysis methods were used, any applicable permit limits have been met and other results are protective of Georgia EPD's water quality standards.

 Daily Min and Daily Max are the lowest and highest values for any day in the month. Daily Avg is the arithmetic average of all daily values during the entire month.

 No = Not Detected (below the lab's reporting limit).

 Turbidity and total residuals chlorine are monitored continuously. The value reported is the weekly maximum and the daily average is the average of the weekly maximum values reported.

 Calculated Receiving Water Concentration shows the effluent concentration at the discharge once it has fully mixed in the resceiving waterbody. This value is calculated as a dissolved form. Consistent with Georgia EPD, non-clearchaid in the resceiving waterbody. This value is calculated as a dissolved concentration for an appropriate comparison to the numeric water quality criteria is the maximum concentration of a parameter (calculated at a default hardness of 50 mg/l. as calculum carbonate) established for the receiving waterbody, that will be protective of the designated use per Georgia EPD's rules and regulations. Calculated Receiving Water Concentrations less than these criteria are protective of the water quality criterion shown is for Hexavalent Chromium.

 Numeric water quality criterion shown is to Hexavalent Chromium.

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Monthly Instream Results¹

August 2023

		Flint River ²							
Parameter ³	Units	8/3/2023 Upstream	8/3/2023 Downstream	8/10/2023 Upstream	8/10/2023 Downstream				
рН	SU	7.0	7.0	6.9	6.8				
TSS	mg/L	ND ⁴	ND	ND	ND				
O&G	mg/L	ND	ND	ND	ND				
TRC	mg/L	0.01	0.02	ND	ND				
Turbidity	NTU	6.3	4.5	8.0	7.1				
TDS	mg/L	75	85	59	61				
BOD	mg/L	ND	ND	ND	ND				
Antimony	μg/L	ND	ND	ND	ND				
Arsenic	μg/L	ND	ND	ND	ND				
Cadmium	μg/L	ND	ND	ND	ND				
Chromium	μg/L	ND	ND	ND	ND				
Copper	μg/L	ND	ND	ND	ND				
Lead	μg/L	ND	ND	ND	ND				
Mercury	ng/L	0.9	1.2	1.2	1.1				
Nickel	μg/L	ND	ND	ND	ND				
Selenium	μg/L	ND	ND	ND	ND				
Thallium	μg/L	ND	ND	ND	ND				
Zinc	μg/L	ND	ND	ND	ND				
Ammonia	mg/L	ND	ND	ND	ND				
TKN	mg/L	ND	ND	ND	ND				
Nitrate-Nitrite	mg/L	0.82	0.84	0.54	0.55				
Organic Nitrogen	mg/L	ND	ND	ND	ND				
Phosphorus	mg/L	ND	ND	ND	0.05				
Ortho-phosphorus	mg/L	ND	ND	ND	ND				
Hardness	mg/L	53	58	38	39				

- 1 Tetra Tech verifies the correct laboratory analysis methods were used.
- 2 Flint River measured 500 ft upstream and 500 ft downstream from the final discharge at Outfall 01B.
- 3 Metals results are total recoverable.
- 4 ND = Non-detect

mg/L = milligrams per liter = parts per million; $\mu g/L = micrograms$ per liter = parts per billion; ng/L = micrograms per liter = parts per trillion; SU = Standard Units; MGD = Million Gallons Day